

ABSTRACT OF THE DISCLOSURE

Manufacturing equipment and manufacturing process steps that improve upon prior art processes for the manufacturing of filament tube and arc tube light sources, their components and subassemblies, and lamps employing said light sources. A double ended, tipless filament tube or arc tube light source incorporates a drawn-down tubular body, and one piece foliated leads with spurs for process handling and for spudding into a filament with stretched-out legs. Bugled ends on the body provide a novel cutoff means, facilitate a flush-fill finishing process, and enhance mounting and support of the light sources in lamps. The foliated leads are made from a continuous length of wire in a process including foil hammering and two-bath AC electrochemical etching. Cost-reduced light source and lamp production enables affordable household consumer lamps, even when containing two series-connected halogen filament tubes. Safety benefits ensue from series connection, especially in combination with disclosed body and filament constructions.

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